



08-Sep-2016

Gregg Middaugh
PBS
2517 Eastlake Ave. East, Suite 100
Seattle, WA 98102

Tel: (206) 255-4659
Fax:

Re: SVEC; 41373.000

Work Order: **1609095**

Dear Gregg,

ALS Environmental received 3 samples on 06-Sep-2016 09:45 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe
Project Manager

ADDRESS 4336 Glendale Millford Rd Cincinnati, Ohio 45242- | PHONE (513) 733-6336 | FAX (513) 733-6347

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ED_004522_00085856-00001

Client: PBS
Project: SVEC; 41373.000
Work Order: 1609095

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1609095-01	41373-2054	Air		9/1/2016	9/6/2016 09:45	<input type="checkbox"/>
1609095-02	41373-2055	Air		9/1/2016	9/6/2016 09:45	<input type="checkbox"/>
1609095-03	41373-2056	Air		9/1/2016	9/6/2016 09:45	<input type="checkbox"/>

Client: PBS
Project: SVEC; 41373.000
Work Order: 1609095

Case Narrative

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

ALS Environmental**Date:** 08-Sep-16

Client: PBS
Project: SVEC; 41373.000
Sample ID: 41373-2054
Collection Date: 9/1/2016

Work Order: 1609095
Lab ID: 1609095-01
Matrix: AIR

Analytical Results**Analyses**

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 2050	Analyst: JEA
Date Analyzed: 9/7/2016		Reporting Limit		
	µg/sample	µg/sample	ng/m3	
Aroclor 1016	ND	0.10	<49	
Aroclor 1221	ND	0.10	<49	
Aroclor 1232	ND	0.10	<49	
Aroclor 1242	ND	0.10	<49	
Aroclor 1248	ND	0.10	<49	
Aroclor 1254	ND	0.10	<49	
Aroclor 1260	ND	0.10	<49	
Aroclor 1262	ND	0.10	<49	
Aroclor 1268	ND	0.10	<49	

Note:

ALS Environmental**Date:** 08-Sep-16

Client: PBS
Project: SVEC; 41373.000
Sample ID: 41373-2055
Collection Date: 9/1/2016

Work Order: 1609095
Lab ID: 1609095-02
Matrix: AIR

Analytical Results**Analyses**

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 0	Analyst: JEA
Date Analyzed: 9/7/2016		Reporting Limit		
	µg/sample	µg/sample	ng/m3	
Aroclor 1016	ND	0.10	NA	
Aroclor 1221	ND	0.10	NA	
Aroclor 1232	ND	0.10	NA	
Aroclor 1242	ND	0.10	NA	
Aroclor 1248	ND	0.10	NA	
Aroclor 1254	ND	0.10	NA	
Aroclor 1260	ND	0.10	NA	
Aroclor 1262	ND	0.10	NA	
Aroclor 1268	ND	0.10	NA	

Note:

ALS Environmental**Date:** 08-Sep-16

Client: PBS
Project: SVEC; 41373.000
Sample ID: 41373-2056
Collection Date: 9/1/2016

Work Order: 1609095
Lab ID: 1609095-03
Matrix: AIR

Analytical Results**Analyses**

PCBS BY EPA TO-10		Method: ETO10A	Air Volume (L): 0	Analyst: JEA
Date Analyzed: 9/7/2016		Reporting Limit		
	µg/sample	µg/sample	ng/m3	
Aroclor 1016	ND	0.10	NA	
Aroclor 1221	ND	0.10	NA	
Aroclor 1232	ND	0.10	NA	
Aroclor 1242	ND	0.10	NA	
Aroclor 1248	ND	0.10	NA	
Aroclor 1254	ND	0.10	NA	
Aroclor 1260	ND	0.10	NA	
Aroclor 1262	ND	0.10	NA	
Aroclor 1268	ND	0.10	NA	

Note:

Client: PBS
 Work Order: 1609095
 Project: SVEC; 41373.000

QC BATCH REPORT

Batch ID: **38153** Instrument ID: **GC3** Method: **ETO10A**

MBLK		Sample ID: MBLK-38153-38153			Units: µg/sample		Analysis Date: 9/7/2016			
Client ID:		Run ID: GC3_160907B			SeqNo: 1350448		Prep Date: 9/6/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	0.10								
Aroclor 1221	ND	0.10								
Aroclor 1232	ND	0.10								
Aroclor 1242	ND	0.10								
Aroclor 1248	ND	0.10								
Aroclor 1254	ND	0.10								
Aroclor 1260	ND	0.10								
Aroclor 1262	ND	0.10								
Aroclor 1268	ND	0.10								
<i>Surr: Decachlorobiphenyl</i>	<i>0.021</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>42</i>	<i>41.6-116</i>	<i>0</i>			
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.0243</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>48.6</i>	<i>45.7-110</i>	<i>0</i>			

LCS		Sample ID: LCS-38153-38153			Units: µg/sample		Analysis Date: 9/7/2016			
Client ID:		Run ID: GC3_160907B			SeqNo: 1350449		Prep Date: 9/6/2016		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1260	0.4836	0.10	1	0	48.4			0		
<i>Surr: Decachlorobiphenyl</i>	<i>0.024</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>48</i>	<i>35.7-104</i>	<i>0</i>			
<i>Surr: Tetrachloro-m-xylene</i>	<i>0.025</i>	<i>0</i>	<i>0.05</i>	<i>0</i>	<i>50</i>	<i>45.7-110</i>	<i>0</i>			

The following samples were analyzed in this batch:

1609095-01A	1609095-02A	1609095-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: PBS
Project: SVEC; 41373.000
WorkOrder: 1609095

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SDL	Sample Detection Limit
SW	SW-846 Method

<u>Units Reported</u>	<u>Description</u>
µg/sample	

Sample Receipt Checklist

Client Name: **PBS-SEATTLE**

Date/Time Received: **06-Sep-16 09:45**

Work Order: **1609095**

Received by: **SNH**

Checklist completed by: **Stephanie Harrington** 06-Sep-16
eSignature Date

Reviewed by: **Shawn Smyth** 06-Sep-16
eSignature Date

Matrices:

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

Cooler(s)/Kit(s):

Water - VOA vials have zero headspace? Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt? Yes ☐ No ☐ N/A ☒

pH adjusted? Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction: